

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IH-158	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/JP2005/002348	International filing date (<i>day/month/year</i>) 16.02.2005	Priority date (<i>day/month/year</i>) 17.02.2004	
International Patent Classification (IPC) or national classification and IPC C07C327/48 (2006.01), A61K31/166 (2006.01), A61K31/18 (2006.01), A61K31/216 (2006.01), A61K31/235 (2006.01), A61K31/275 (2006.01)			
Applicant Ishihara Sangyo Kaisha, Ltd.			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/002348

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

 - international search (Rule 12.3 and 23.1(b))
 - publication of the international application (Rule 12.4)
 - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished

the description:
 pages _____ as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the claims:
 nos. _____ as originally filed/furnished
 nos.* _____ as amended (together with any statement) under Article 19
 nos.* _____ received by this Authority on _____
 nos.* _____ received by this Authority on _____

the drawings:
 sheets _____ as originally filed/furnished
 sheets* _____ received by this Authority on _____
 sheets* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____
 the claims, nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V	International application No. PCT/JP2005/002348
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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement

Novelty (N)	Claims <u>3-11</u>	YES
	Claims <u>1-2, 12-13</u>	NO
Inventive step (IS)	Claims <u>3-11</u>	YES
	Claims <u>1-2, 12-13</u>	NO
Industrial applicability (IA)	Claims <u>1-13</u>	YES
	Claims _____	NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2003-506466 A (Aventis Cropscience GmbH),
 18 February 2003, pages 4 to 8 & WO 01/11966
 A1 & EP 1204322 A1 & US 6630495 B1

Document 2: JP 2002-503723 A (Aventis Cropscience U. K.
 Ltd.) 05 February 2002, pages 5 to 9 and 36
 to 38 & WO 99/42447 A1 & EP 1056723 A1 & US
 6503933 B1

Document 3: JP 9-176100 A (Ube Industries, Ltd.), 08 July
 1997, pages 5 to 11 & WO 97/15551 A1 & EP
 866056 A1 & US 5977410 A

Document 4: JP 52-100476 A (F. Hoffman-La Roche & Co.,
 AG.), 23 August 1977, claims & GB 1512194 A

Document 5: Nihon Kagaku Zasshi, 1969, Vol. 90, No. 10,
 pages 1051 to 1053

Document 6: JP 2002-338537 A (Mitsubishi Pharma Corp.),
 27 November 2002, pages 4 to 8 (Family:
 none)

Claims 1 to 2 and 12 to 13

The inventions set forth in claims 1 to 2 and 12 to 13 lack novelty and do not involve an inventive step in the light of documents 1 to 5 cited in the international search report.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITYInternational application No.
PCT/JP2005/002348**Box No. V** **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

In particular, documents 1 to 5 disclose 2-halogeno thiobenzoyl aminoalkyl compounds.

Claims 3 to 11

The inventions set forth in claims 3 to 11 are novel and involve an inventive step in relation to document 6 cited in the international search report.

In particular, document 6 does not disclose or suggest the use of 2-halogeno thiobenzoyl aminoalkyl compounds as cytokine production inhibitors.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Front page

International Patent Classification (IPC) or
national classification and IPC:

A61K31/353 (2006.01), A61K31/41 (2006.01), A61K31/4164 (2006.01), A61K31/4184 (2006.01), A61K31/4192 (2006.01), A61K31/423 (2006.01), A61K31/426 (2006.01), A61K31/428 (2006.01), A61K31/437 (2006.01), A61K31/44 (2006.01), A61K31/4409 (2006.01), A61K31/4412 (2006.01), A61K31/443 (2006.01), A61K31/4439 (2006.01), A61K31/444 (2006.01), A61K31/4545 (2006.01), A61K31/455 (2006.01), A61K31/47 (2006.01), A61K31/4709 (2006.01), A61K31/4965 (2006.01), A61K31/50 (2006.01), A61K31/505 (2006.01), A61K31/517 (2006.01), A61K31/5377 (2006.01), A61K31/541 (2006.01), A61P3/10 (2006.01), A61P5/14 (2006.01), A61P11/02 (2006.01), A61P11/06 (2006.01), A61P17/00 (2006.01), A61P17/04 (2006.01), A61P19/02 (2006.01), A61P21/04 (2006.01), A61P25/00 (2006.01), A61P27/14 (2006.01), A61P29/00 (2006.01), A61P37/02 (2006.01), A61P37/08 (2006.01), A61P43/00 (2006.01), C07D207/14 (2006.01), C07D209/14 (2006.01), C07D213/64 (2006.01), C07D213/68 (2006.01), C07D213/69 (2006.01), C07D213/70 (2006.01), C07D213/71 (2006.01), C07D213/73 (2006.01), C07D213/74 (2006.01), C07D213/75 (2006.01), C07D213/79 (2006.01), C07D213/82 (2006.01), C07D213/83 (2006.01), C07D213/89 (2006.01), C07D215/20 (2006.01), C07D215/22 (2006.01), C07D215/26 (2006.01), C07D231/42 (2006.01), C07D233/42 (2006.01), C07D235/08 (2006.01), C07D237/16 (2006.01), C07D239/34 (2006.01), C07D239/38 (2006.01), C07D239/42 (2006.01), C07D239/52 (2006.01), C07D239/60 (2006.01),

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITYInternational application No.
PCT/JP2005/002348**Supplemental Box**

C07D239/88 (2006.01), C07D241/18 (2006.01), C07D249/20
(2006.01), C07D257/04 (2006.01), C07D263/58 (2006.01),
C07D277/20 (2006.01), C07D277/36 (2006.01), C07D277/74
(2006.01), C07D311/46 (2006.01), C07D401/04 (2006.01),
C07D401/12 (2006.01), C07D401/14 (2006.01), C07D405/12
(2006.01), C07D471/04 (2006.01)